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*Annals of Operations Research*

**Special Issue: Big Data Modeling and Applications**

In the big data era, correctly harnessing data can help to achieve better and fact-based decision-making in all aspects of operations research. Big data modeling aims to describe and organize the large volumes of both structured and unstructured data, with the goal to ensure a high level of data quality and accessibility for big data applications. However, big data is usually complex due to its volume and variety, as a result, modeling big data and preparing big data for applications are complicated tasks.

Articles concerning new theoretical research and methods on big data modeling and applications in all aspects of operations research are solicited. Topics of interest include, but are not limited to:

- Advanced Statistical Methods in Data Science
- Big Data Algorithms, Applications and Services
- Big Data Mining and Analytics
- Big Data Processing and Querying
- Dimensional Data Modeling
- Structured and Unstructured Data/Text/Web Mining
- Machine Learning and Statistical Methods for Data Mining
- Deep Learning Architecture
- Predictive Modeling and Analytics
- Data Warehouse for Business Intelligence
- Information and Data Processing in Business
- Data Intelligence and Security
- Security, Trust and Risk in Big Data
- Hardware and Software Solutions for Big Data Searching, Storing and Management
- Big Data-driven Modeling in Management Decision-making
- Applications of big data modeling in business, finance, social sciences, physical sciences, life sciences, web, marketing, precision medicine, education, health informatics, and system engineering

Instructions for authors can be found at:

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Authors should submit a cover letter and a manuscript by **March 31, 2023**, via the Journal's online submission site. Manuscripts submitted after the deadline may not be considered for the special issue and may be transferred, if accepted, to a regular issue.

Please see the Author instructions on the web site if you have not yet submitted a paper through Springer's web-based system, Editorial Manager. When prompted for the article type, please select **Original Research**. On the Additional Information screen, you will then be asked if the manuscript belongs to a special issue, please choose the special issue's title, **Big Data Modeling and Applications**, to ensure that it will be reviewed for this special issue.

Papers will be subject to a strict review process under the supervision of the Guest Editor, and accepted papers will be published online individually, before print publication.

**Guest Editors:** Xufeng Zhao\*, Qunwei Wang, and Hoang Pham

\*corresponding guest editor

**Brief bio of each guest editor:**

**Xufeng Zhao** is a Professor at College of Economics and Management, Nanjing University of Aeronautics and Astronautics, China. He received his doctoral degree in business administration and computer science in 2013 from Aichi Institute of Technology, Japan. He has worked as Postdoctoral Researcher from 2013 to 2017 at Aichi Institute of Technology and Qatar University, respectively. He is interested in statistics, stochastic process, reliability and maintenance modeling, and applications in computer and industrial systems. He has published two books from Springer and more than 50 research papers in peer reviewed journals; and he is the author or coauthor of 12 book chapters from Springer and Wiley, and etc. He has gotten one best paper award from IEEE Reliability Society Japan Chapter and five best paper awards from international conferences in reliability, maintainability and quality. Professor Zhao serves as an associate editor for *Stochastic Models*, that is an affiliated publication of INFORMS, and the editorial board and guest editors of other journals.

**Qunwei Wang** is a Professor and the Deputy Dean of the College of Economics and Management, Nanjing University of Aeronautics and Astronautics, China. His research interests include data analyses in energy and environmental economics and management, low-carbon operations management, energy finance and emissions trading. He presides over the Excellent Young Scientists Fund of China and was selected to join the fourth batch of the National Ten Thousand Talent Program for Young Top-notch Talents. He has published more than 60 papers

in peer-reviewed journals, including *Naval Research Logistics*, *Energy Economics*, *Ecological Economics*, *Applied Energy*, *Energy*, *Renewable and Sustainable Energy Reviews*, *Ecological Indicators*, *Energy Policy*, *Transportation Research Part A*, *Technological Forecasting and Social Change*, and *Economic Modelling*. He has been named in global “Highly Cited Researchers 2020” (Cross-field) released by Clarivate Analytics. He serves as an Associate Editor of *Energy Engineering*, Editorial Board Member of *Chinese Journal of Population, Resources and Environment*, *Journal of Environmental Economics*, and *Journal of China University of Petroleum*, guest editor of *Energy Efficiency*, *Natural Hazards*, and *Tropical Conservation Science*, and a referee for more than 50 peer-reviewed journals.

**Hoang Pham** is a Distinguished Professor and former Chairman of the Department of Industrial and Systems Engineering at Rutgers University, New Jersey, USA. He is the author or coauthor of seven books and has published over 200 journal articles, 100 conference papers, and edited 20 books. His numerous awards include the 2009 IEEE Reliability Society *Engineer of the Year Award*. He is a Fellow of the IEEE and IISE.